

ABSTRACT OF THE DISCLOSURE

A method and computer-readable medium for reducing artifacts in image data generated by a computed tomography system is provided. The artifacts are due to the presence of a high density object in a subject of interest. The method comprises receiving measured sinogram data from the computed tomography system. The sinogram data is representative of sinogram elements. The measured sinogram data is reconstructed to generate initial reconstructed image data. Then corrected sinogram data is generated using the measured sinogram data. The corrected sinogram data is iteratively reconstructed to generate an improved reconstructed image data based on a weight measure derived from the measured sinogram data.